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(71)(72) Applicant and Inventor: LEBLANG, Dennis [US/US]; 22719 Bridle Trail Road, Kildeer, IL 60047 (US).

(74) Agent: FOX, Sidney, N.; Suite 260, 555 Skokie Boulevard, Northbrook, IL 60062-2833 (US). KR, LT, LV, MX, NO, NZ, PL, RO, SG, SK, TR, UA, Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE).

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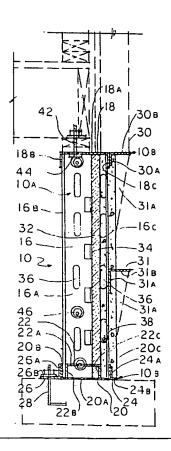
With international search report.

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(54) Title: SELF-CONTAINED MOLDED PRE-FABRICATED BUILDING PANEL AND METHOD OF MAKING THE SAME

#### (57) Abstract

The invention provides pre-fabricated panels (10) including a truss structure (600, 666, 700, 722, 850) and a skeletal assembly (10A) comprising an array of steel channels (16) supported between base plates (18, 20), rigid sheeting (32) proximate to the channels, support members (34) adjacent the rigid sheeting, and angles (30, 24) and a forming structure (10B) defining the skeletal assembly (10A). The skeletal assembly (A) and forming structure (10B) oriented horizontal on a planar surface. A selfhardening material introduced into the forming structure (10B). The forming structure (10B) becomes an integral part of the panel. A building truss (600) including double-angle struts (608, 610), a webreinforcement bar (618) threaded therealong, and rigid sheeting (618). A moulding (549) and means to enable press-seating thereof in a wet concrete wall are disclosed as is a flexible brick facing (536) also pressed into a wet concrete. A water stop (101, 101') is provided for cooperation with the panels.



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U.S. : 5.	2/24, 97, 234, 426, 562, 597 <b>;</b> 249/	<sup>7</sup> 44, 45, 47				
Documentat	ion searched other than minimum documentation to the	extent that such documents are included	in the fields searched			
Electronic d	ata base consulted during the international search (name of the consulted during the international search (name	me of data base and, where practicable,	search terms used)			
C. DOC	UMENTS CONSIDERED TO BE RELEVANT					
Category*	Citation of document, with indication, where app	propriate, of the relevant passages	Relevant to claim No.			
X	US 5,491,947 A (KIM) 20 FEBRUARY 1996 (20/02/96), SEE 25 ENTIRE DOCUMENT					
Х	US 4,021,989 A (HALA) 10 MAY 1977 (10/05/77), SEE ENTIRE 43-44 DOCUMENT 43-44					
X,P	US 5,678,361 A (BAIR) 21 OCTOBER 1997 (21/10/97), SEE 53-54 ENTIRE DOCUMENT					
X,P	US 5,695,443 A (BRENT ET AL) O 9 DECEMBER 1997 93-105 (09/12/97), SEE ENTIRE DOCUMENT					
X,P	US 5,709,058 A (SHAW) 20 JANUA ENTIRE DOCUMENT	93-105				
x	US 4,622,796 A (AZIZ ET AL) (19/11/86), SEE ENTIRE DOCUMEN		41-42			
X Furth	ner documents are listed in the continuation of Box C.	. See patent family annex.				
• Sp	secial categories of cited documents:	*T* later document published after the int				
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•O• qo	ecial reason (as specified)  cument referring to an oral disclosure, use, exhibition or other	"Y" document of particular relevance; the considered to involve an inventive combined with one or more other suc	step when the document is the documents, such combination			
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	actual completion of the international search	Date of mailing of the international se	arch report			
27 JANU	ARY 1999	0 8 MAR 1999				
	Name and mailing address of the ISA/US Commissioner of Patents and Trademarks  Authorized officer  Authorized officer					
Washingto	on, D.C. 20231	BETH AUBREY	,			
I Facsimile N	No. (703) 305-3230 6	Telephone No. (703) 308-2168				

International application No. PCT/US98/17169

	FC1/0398/17109			
C (Continua	tion). DOCUMENTS CONSIDERED TO BE RELEVANT			
Category*	Citation of document, with indication, where appropriate, of the relevant passages		Relevant to claim No	
A	US 4,669,240 A (AMORMINO) 2 JUNE 1987 (02/06/8 ENTIRE DOCUMENT	1-24,26-40, 46- 52,55-9 2		

International application No. PCT/US98/17169

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)					
This international report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:					
1. Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:					
2. Claims Nos.: because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:					
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).					
Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)					
This International Searching Authority found multiple inventions in this international application, as follows:					
Please See Extra Sheet.					
1. X As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.					
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.					
3. As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:					
4. No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:					
Remark on Protest  The additional search fees were accompanied by the applicant's protest.  X  No protest accompanied the payment of additional search fees.					

International application No.

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BOX II. OBSERVATIONS WHERE UNITY OF INVENTION WAS LACKING This ISA found multiple inventions as follows:

This application contains the following inventions or groups of inventions which are not so linked as to form a single inventive concept under PCT Rule 13.1. In order for all inventions to be searched, the appropriate additional search fees must be paid.

Group I, claim(s)1-40, 46-52, 55, 62-75, 79-81, 84, 86-92, AND 107, drawn to a panel.

Group II, claim(s) 53-54, drawn to a water stop.

Group III, claim(s) 41-42, drawn to a brick layer.

Group IV, claim(s)s 43-45, drawn to a moulding element.

Group V, claim(s) 56-61, 76-79, and 106, drawn to a truss structure.

Group VI, claim(s) 93-105, drawn to a form.

The inventions listed as Groups 1 - VI do not relate to a single inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: each of the groups are subcombinations none requiring the specifics of any of the others.